

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/787,219A
Source: JFLWJ
Date Processed by STIC: 10/29/04

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/787,219A

DATE: 10/29/2004

TIME: 12:42:39

Input Set : A:\248628US0X.txt
 Output Set: N:\CRF4\10292004\J787219A.raw

3 <110> APPLICANT: JESTIN, JEAN-LUC
 4 VICHIER-GUERRE, SOPHIE
 6 <120> TITLE OF INVENTION: METHODS FOR OBTAINING THERMOSTABLE ENZYMES, DNA POLYMERASE I
 7 VARIANTS FROM THERMUS AQUATICUS HAVING NEW CATALYTIC ACTIVITIES,
 8 METHODS FOR OBTAINING THE SAME, AND APPLICATIONS OF THE SAME
 10 <130> FILE REFERENCE: 248628USOX
 12 <140> CURRENT APPLICATION NUMBER: 10/787,219A
 13 <141> CURRENT FILING DATE: 2004-02-27
 15 <160> NUMBER OF SEQ ID NOS: 61
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 24
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Synthetic DNA
 27 <400> SEQUENCE: 1
 28 taacaatagg cggccacccc cttc 24
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 18
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Synthetic DNA
 39 <400> SEQUENCE: 2
 40 gagttttgt tctgcggc 18
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 27
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Synthetic DNA
 51 <400> SEQUENCE: 3
 52 tttaatcatc tgcagttaccg ggagctc 27
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 28
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Synthetic DNA
 63 <400> SEQUENCE: 4
 64 ttcatttcttg ctagctcctg ggagaggg 28
 67 <210> SEQ ID NO: 5

(PS.10)

RAW SEQUENCE LISTING DATE: 10/29/2004
PATENT APPLICATION: US/10/787,219A TIME: 12:42:39

Input Set : A:\248628US0X.txt
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68 <211> LENGTH: 43
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Synthetic DNA
76 <220> FEATURE:
77 <221> NAME/KEY: misc_feature
78 <222> LOCATION: (15)..(15)
79 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
80 C and A, in the trimer sequence CAR and AVY, respectively
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (16)..(16)
85 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
86 A and V, in the trimer sequence CAR and AVY, respectively
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: (17)..(17)
91 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
92 R and Y, in the trimer sequence CAR and AVY, respectively
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (24)..(24)
97 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
98 C and A, in the trimer sequence CAR and AVY, respectively
100 <220> FEATURE:
101 <221> NAME/KEY: misc_feature
102 <222> LOCATION: (25)..(25)
103 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
104 A and V, in the trimer sequence CAR and AVY, respectively
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (26)..(26)
109 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
110 R and Y, in the trimer sequence CAR and AVY, respectively
112 <400> SEQUENCE: 5
W--> 113 cccggccacccc cttcnnnctc aacnnncggg accagctgga aag 43
116 <210> SEQ ID NO: 6
117 <211> LENGTH: 65
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic DNA
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (17)..(17)
128 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative

abundance:

129 Y and R, in the trimer sequence YTG and RBT, respectively
131 <220> FEATURE:

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Input Set : A:\248628US0X.txt

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132 <221> NAME/KEY: misc_feature

133 <222> LOCATION: (18)..(18)

134 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

135 T and B, in the trimer sequence YTG and RBT, respectively

137 <220> FEATURE:

138 <221> NAME/KEY: misc_feature

139 <222> LOCATION: (19)..(19)

140 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

141 G and T, in the trimer sequence YTG and RBT, respectively

143 <220> FEATURE:

144 <221> NAME/KEY: misc_feature

145 <222> LOCATION: (20)..(20)

146 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

147 Y and R, in the trimer sequence YTG and RBT, respectively

149 <220> FEATURE:

150 <221> NAME/KEY: misc_feature

151 <222> LOCATION: (21)..(21)

152 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

153 T and B, in the trimer sequence YTG and RBT, respectively

155 <220> FEATURE:

156 <221> NAME/KEY: misc_feature

157 <222> LOCATION: (22)..(22)

158 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

159 G and T, in the trimer sequence YTG and RBT, respectively

161 <220> FEATURE:

162 <221> NAME/KEY: misc_feature

163 <222> LOCATION: (26)..(26)

164 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

165 Y and R, in the trimer sequence YTG and RBT, respectively

167 <220> FEATURE:

168 <221> NAME/KEY: misc_feature

169 <222> LOCATION: (27)..(27)

170 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

171 T and B, in the trimer sequence YTG and RBT, respectively

173 <220> FEATURE:

174 <221> NAME/KEY: misc_feature

175 <222> LOCATION: (28)..(28)

176 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

177 G and T, in the trimer sequence YTG and RBT, respectively

179 <220> FEATURE:

180 <221> NAME/KEY: misc_feature

181 <222> LOCATION: (44)..(44)

182 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

183 Y and R, in the trimer sequence YTG and RBT, respectively

185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (45)..(45)
188 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:
189 T and B, in the trimer sequence YTG and RBT, respectively

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Input Set : A:\248628US0X.txt

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191 <220> FEATURE:

192 <221> NAME/KEY: misc_feature

193 <222> LOCATION: (46)..(46)

194 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

195 G and T, in the trimer sequence YTG and RBT, respectively

197 <400> SEQUENCE: 6

W--> 198 ggatgaggta cggcaannnn nnaatnnngg tgctttcag cttnnngagc tcccggtact 60

65

200 gcagg

203 <210> SEQ ID NO: 7

204 <211> LENGTH: 62

205 <212> TYPE: DNA

206 <213> ORGANISM: Artificial Sequence

208 <220> FEATURE:

209 <223> OTHER INFORMATION: Synthetic DNA

212 <220> FEATURE:

213 <221> NAME/KEY: misc_feature

214 <222> LOCATION: (17)..(17)

215 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

216 C and A, in the trimer sequence CAR and AVY, respectively

218 <220> FEATURE:

219 <221> NAME/KEY: misc_feature

220 <222> LOCATION: (18)..(18)

221 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

222 A and V, in the trimer sequence CAR and AVY, respectively

224 <220> FEATURE:

225 <221> NAME/KEY: misc_feature

226 <222> LOCATION: (19)..(19)

227 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

228 R and Y, in the trimer sequence CAR and AVY, respectively

230 <220> FEATURE:

231 <221> NAME/KEY: misc_feature

232 <222> LOCATION: (32)..(32)

233 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

234 C and A, in the trimer sequence CAR and AVY, respectively

236 <220> FEATURE:

237 <221> NAME/KEY: misc_feature

238 <222> LOCATION: (33)..(33)

239 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

240 A and V, in the trimer sequence CAR and AVY, respectively

242 <220> FEATURE:

243 <221> NAME/KEY: misc_feature

244 <222> LOCATION: (34)..(34)

245 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

246 R and Y, in the trimer sequence CAR and AVY, respectively

248 <220> FEATURE:

249 <221> NAME/KEY: misc_feature

250 <222> LOCATION: (41)..(41)

251 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

252 C and A, in the trimer sequence CAR and AVY, respectively

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Input Set : A:\248628US0X.txt

Output Set: N:\CRF4\10292004\J787219A.raw

254 <220> FEATURE:

255 <221> NAME/KEY: misc_feature

256 <222> LOCATION: (42)..(42)

257 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

258 A and V, in the trimer sequence CAR and AVY, respectively

260 <220> FEATURE:

261 <221> NAME/KEY: misc_feature

262 <222> LOCATION: (43)..(43)

263 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

264 R and Y, in the trimer sequence CAR and AVY, respectively

266 <400> SEQUENCE: 7

W--> 267 caaccagacg gccacgnnna cgggcaggct annnagctcc nnncccaacc tccagaacat 60
269 cc 62

272 <210> SEQ ID NO: 8

273 <211> LENGTH: 43

274 <212> TYPE: DNA

275 <213> ORGANISM: Artificial Sequence

277 <220> FEATURE:

278 <223> OTHER INFORMATION: Synthetic DNA

281 <220> FEATURE:

282 <221> NAME/KEY: misc_feature

283 <222> LOCATION: (14)..(14)

284 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

285 Y and R, in the trimer sequence YTG and RBT, respectively

287 <220> FEATURE:

288 <221> NAME/KEY: misc_feature

289 <222> LOCATION: (15)..(15)

290 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

291 T and B, in the trimer sequence YTG and RBT, respectively

293 <220> FEATURE:

294 <221> NAME/KEY: misc_feature

295 <222> LOCATION: (16)..(16)

296 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

297 G and T, in the trimer sequence YTG and RBT, respectively

299 <220> FEATURE:

300 <221> NAME/KEY: misc_feature

301 <222> LOCATION: (23)..(23)

302 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

303 Y and R, in the trimer sequence YTG and RBT, respectively

305 <220> FEATURE:

306 <221> NAME/KEY: misc_feature

307 <222> LOCATION: (24)..(24)

308 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

309 T and B, in the trimer sequence YTG and RBT, respectively

311 <220> FEATURE:

312 <221> NAME/KEY: misc_feature

313 <222> LOCATION: (25)..(25)

314 <223> OTHER INFORMATION: n represents the following sequences in a 1:1 relative abundance:

315 G and T, in the trimer sequence YTG and RBT, respectively

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/787,219A

DATE: 10/29/2004
TIME: 12:42:40

Input Set : A:\248628US0X.txt
Output Set: N:\CRF4\10292004\J787219A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 15,16,17,24,25,26
Seq#:6; N Pos. 17,18,19,20,21,22,26,27,28,44,45,46
Seq#:7; N Pos. 17,18,19,32,33,34,41,42,43
Seq#:8; N Pos. 14,15,16,23,24,25
Seq#:9; N Pos. 20,21,22,38,39,40,44,45,46,47,48,49
Seq#:10; N Pos. 20,21,22,29,30,31,44,45,46
Seq#:11; N Pos. 19,20,21,28,29,30

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/787,219A

DATE: 10/29/2004

TIME: 12:42:40

Input Set : A:\248628US0X.txt

Output Set: N:\CRF4\10292004\J787219A.raw

L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0